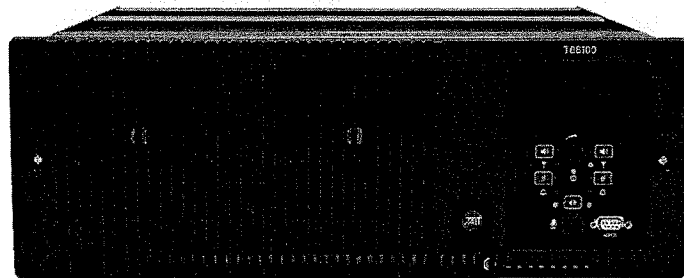


TB8100 Repeater/Base Station



The TB8100 base station sets the standard for high-performing analog radio communications technology. This software-flexible product is built on a foundation of intelligence, flexibility for system integration, modularity and robustness.

All TB8100 systems offer continuous duty cycle operation at full performance specifications within the complete temperature and altitude range.

With flexible, modular design, practical features and value that Tait is renowned for, the TB8100 raises the bar for analog base stations/repeaters. It offers 28V technology for superior performance and reliability.

What's more, it's even easier to use. Flexible software with an intuitive user interface makes the TB8100 very integrator friendly and expandable.

Its practical easy-to-use features coupled with impressive RF performance help make the TB8100 the next generation analog base station.

The TB8100 offers you the following benefits:

- 255 Channels with up to 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps, per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics
- Choice of external interface configurations
- Programmable Operation
- Software Enabled Feature upgrade options
- Choice of single 100 Watt or dual 5 or 50 Watt configurations
- Seamless backup battery operation and charging with AC/DC supply
- Computer Controlled Interface via RS232 serial interface

Intelligent • Flexible • High Performance

Digital Controller Design

Designed from the ground up, the TB8100 features a state-of-the-art RISC processor and Digital Signal Processor (DSP), providing very fast, reliable data processing through the latest in digital technology.

28V Technology

More powerful than most base stations in its class. Tait tests the TB8100 to transmit continuously at full power with ambient air temperatures as high as +60°C (140°F) at 4572m (15,000ft).

Advanced Programming Capabilities

The TB8100's intuitive yet comprehensive programming software with Graphical User Interface (GUI) lets you manage and program over 150 critical parameters, including all monitoring, configuration management and power management features.

Convenient Modular Design

Designed for ease of hook-up and adaptation in the field, the TB8100 is configured with front-loading modules that can be mixed and matched to meet your system needs. Whether expanding from 50 to 100 watts, moving from single to dual channel operation, or replacing the PA or system interface board, the TB8100 gives you the flexibility to make changes in the field. A clean back-panel design hides the usual rear unit wiring clutter displaying only the connections required to link to your external radio system.

User Specific Applications

Additional customized programming is made easy with the TB8100 Task Manager - there's no need for intrusive hardware add-ons. The TB8100 can readily accommodate your specific signaling, notification or alert needs. Program the unit to automatically switch to a backup base station if the self-monitor determines a problem, and choose from the wide range of alarm notification options to suit your specific solution needs.

Power Management System

The comprehensive power management system provides the ability to automatically switch between AC and DC power, to move to battery operation in the case of power failure, and to provide auxiliary battery charging and management.

12VDC PA-Only Version

The TB8100 is also available without a Power Management Unit. The PA-only system is based on a 12VDC PA that contains a 12 to 28 volt converter.

Self-Monitor Capability

The TB8100 manages self-monitoring parameters in its non-volatile memory, requiring no external costly monitor units, saving money, time and hassles. The advanced monitoring system will read the base status, determine the appropriate required action, and perform that action while alerting central control.

Complete Remote Accessibility

The advanced intuitive interface of the TB8100 Service Kit Software makes remote management of your system simple. The self-monitoring application has dial-out capability so you are immediately notified of potential issues. Over 150 parameters on the system can be managed remotely with the TB8100 Service Kit Software.

Robust Specifications

Built to exceed standard specifications, the TB8100 is designed to withstand extreme temperature conditions. Engineered for maximum reliability, the TB8100 has large heat sinks, advanced cooling, and the intelligence to maintain the highest possible levels of service in adverse environments.

Peak RF Performance

With outstanding specifications for selectivity, adjacent channel interference and fast key-up times, the TB8100 base station was designed using the best RF practices. You can depend on the RF performance of this base station even in the most extreme temperature conditions.

Computer Controlled Interface (CCI)

The TB8100 includes CCI, a command protocol allowing communication between an intelligent device (e.g. computer equipment) and the base station. The protocol is embedded in the base station firmware and is accessed via the standard RS232 serial interface. CCI supplies an integrated path into the TB8100 Task Manager (a software enabled feature). CCI also provides the ability to change the operational channel via the serial interface and to read any of the extensive monitoring parameters in real time.

TB8100 28V PMU Repeater/Base Station System Prices

The TB8100 Base Station System is shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Management Module
- Power Amplifier
- Reciter (Receiver/Exciter) with system interface
- Service Kit (programming SW, cable, CD)
- Installation Guide



System	VHF/UHF/200MHz	800MHz
Single 1-5w	6,205	7,025
Single 5-50w	6,570	7,405
Single 10-100w	7,230	8,240
Dual 1-5w	10,160	11,800
Dual 5-50w	10,890	12,560
Dual 1-5 + 5-50w	10,525	12,180

Notes: Prices are for 12VDC PMU systems only. Additional configuration costs may apply.

Additional Options	
Power Management	Add
AC Power Management Unit (PMU) (price includes US Power Cord)	210
24VDC or 48VDC Power Management Unit	n/c
Dual Power Management Unit (AC+12/24/48VDC) (price includes US Power Cord)	810
Software Feature Enhancements	Add
Power Save (for single reciter systems only)	2,499
Alarm Reporting (per reciter)	699
Advanced Profiles and Task Manager (per reciter)	1,449
Hardware	Add
Microphone	51
Coaxial / Antenna Relay w/Fittings & Mounting Brackets	470

Prices do not include RF equipment such as combiners, splitters, couplers, antennas etc.

TB8100 12VDC PA-Only Base Station System Prices
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The TB8100 Base Station System is available without a Power Management Unit (PMU). The PA-only system is based on a 12VDC PA that contains a 12 to 28 volt converter. To reduce complexity, the advanced monitoring and diagnostic features of the PMU are not included.

The 12V PA only system is shipped with the following modules included:

- Subrack Front Panel with fan
- Control Panel
- Power Amplifier
- Reciter (Receiver/Exciter) with system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

System	VHF/UHF/200MHz	800MHz
Single 1-5w	5,095	5,915
Single 5-50w	5,460	6,295
Dual 1-5w	9,050	10,690
Dual 5-50w	9,780	11,450
Dual 1-5 + 5-50w	9,415	11,070

Additional Options	
Software Feature Enhancements	Add
Power Save (For Single Reciter Systems Only)	2,499
Alarm Reporting (Per Reciter)	699
Advanced Profiles and Task Manager (per Reciter)	1,449
Hardware	Add
Microphone	51
Coaxial / Antenna Relay w/Fittings & Mounting Brackets	470

TB8100 Single 5 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 1-5 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module except 12VDC PA Only version
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

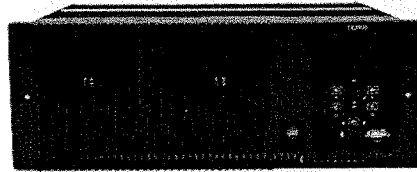
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8H0-M0B2-00C0-A0B0	S8BJ-A0B2-00C0-A0B0	S8B2-A0B2-00C0-A4B0	S8BE-A0B2-00C0-A4B0
148-174 MHz	S8H0-M0B3-00C0-A0B0	S8BJ-A0B3-00C0-A0B0	S8B2-A0B3-00C0-A4B0	S8BE-A0B3-00C0-A4B0
174-193 MHz	S8H0-M0C1-00C0-A0B0	S8BJ-A0C1-00C0-A0B0	S8B2-A0C1-00C0-A4B0	S8BE-A0C1-00C0-A4B0
193-225 MHz	S8H0-M0C2-00C0-A0B0	S8BJ-A0C2-00C0-A0B0	S8B2-A0C2-00C0-A4B0	S8BE-A0C2-00C0-A4B0
400-440 MHz	S8H0-M0H1-00C0-A0B0	S8BJ-A0H1-00C0-A0B0	S8B2-A0H1-00C0-A4B0	S8BE-A0H1-00C0-A4B0
440-480 MHz	S8H0-M0H2-00C0-A0B0	S8BJ-A0H2-00C0-A0B0	S8B2-A0H2-00C0-A4B0	S8BE-A0H2-00C0-A4B0
470-520 MHz	S8H0-M0H3-00C0-A0B0	S8BJ-A0H3-00C0-A0B0	S8B2-A0H3-00C0-A4B0	S8BE-A0H3-00C0-A4B0
Price	5,095	6,205	6,415	7,015
762-869 MHz	S8H0-M0K4-00C0-A0B0	S8BJ-A0K4-00C0-A0B0	S8B2-A0K4-00C0-A4B0	S8BE-A0K4-00C0-A4B0
Price	5,915	7,025	7,235	7,835

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 Dual 5 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 1-5 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Two Power Amplifiers
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Two Reciters (Receiver/Exciter) each with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

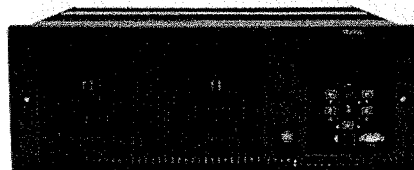
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8J0-MMB2-B2CC-A0B0	S8CJ-AAB2-B2CC-A0B0	S8C2-AAB2-B2CC-A4B0	S8CE-AAB2-B2CC-A4B0
148-174 MHz	S8J0-MMB3-B3CC-A0B0	S8CJ-AAB3-B3CC-A0B0	S8C2-AAB3-B3CC-A4B0	S8CE-AAB3-B3CC-A4B0
174-193 MHz	S8J0-MMC1-C1CC-A0B0	S8CJ-AAC1-C1CC-A0B0	S8C2-AAC1-C1CC-A4B0	S8CE-AAB3-C1CC-A4B0
193-225 MHz	S8J0-MMC2-C2CC-A0B0	S8CJ-AAC2-C2CC-A0B0	S8C2-AAC2-C2CC-A4B0	S8CE-AAC2-C2CC-A4B0
400-440 MHz	S8J0-MMH1-H1CC-A0B0	S8CJ-AAH1-H1CC-A0B0	S8C2-AAH1-H1CC-A4B0	S8CE-AAH1-H1CC-A4B0
440-480 MHz	S8J0-MMH2-H2CC-A0B0	S8CJ-AAH2-H2CC-A0B0	S8C2-AAH2-H2CC-A4B0	S8CE-AAH2-H2CC-A4B0
470-520 MHz	S8J0-MMH3-H3CC-A0B0	S8CJ-AAH3-H3CC-A0B0	S8C2-AAH3-H3CC-A4B0	S8CE-AAH3-H3CC-A4B0
Price	9,050	10,160	10,370	10,970
762-869 MHz	S8J0-MMK4-K4CC-A0B0	S8CJ-AAK4-K4CC-A0B0	S8C2-AAK4-K4CC-A4B0	S8CE-AAK4-K4CC-A4B0
Price	10,690	11,800	12,010	12,610

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- These Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 Single 50 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 5-50 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

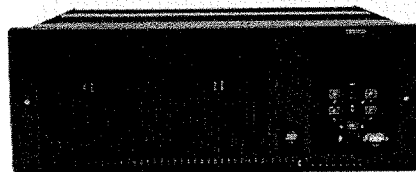
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8H0-N0B2-00C0-A0B0	S8BJ-E0B2-00C0-A0B0	S8B2-E0B2-00C0-A4B0	S8BE-E0B2-00C0-A4B0
148-174 MHz	S8H0-N0B3-00C0-A0B0	S8BJ-E0B3-00C0-A0B0	S8B2-E0B3-00C0-A4B0	S8BE-E0B3-00C0-A4B0
174-193 MHz	S8H0-N0C1-00C0-A0B0	S8BJ-E0C1-00C0-A0B0	S8B2-E0C1-00C0-A4B0	S8BE-E0C1-00C0-A4B0
193-225 MHz	S8H0-N0C2-00C0-A0B0	S8BJ-E0C2-00C0-A0B0	S8B2-E0C2-00C0-A4B0	S8BE-E0C2-00C0-A4B0
400-440 MHz	S8H0-N0H1-00C0-A0B0	S8BJ-E0H1-00C0-A0B0	S8B2-E0H1-00C0-A4B0	S8BE-E0H1-00C0-A4B0
440-480 MHz	S8H0-N0H2-00C0-A0B0	S8BJ-E0H2-00C0-A0B0	S8B2-E0H2-00C0-A4B0	S8BE-E0H2-00C0-A4B0
470-520 MHz	S8H0-N0H3-00C0-A0B0	S8BJ-E0H3-00C0-A0B0	S8B2-E0H3-00C0-A4B0	S8BE-E0H3-00C0-A4B0
Price	5,460	6,570	6,780	7,380
762-869 MHz	S8H0-N0K4-00C0-A0B0	S8BJ-E0K4-00C0-A0B0	S8B2-E0K4-00C0-A4B0	S8BE-E0K4-00C0-A4B0
Price	6,295	7,405	7,615	8,215

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 Dual System: 50 Watt + 5 Watt


The TB8100 offers you the following benefits:

- 255 Channels, 5-50 Watt power output and 1-5 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Programmable Operation
- Optional Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Two Power Amplifiers
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Two Reciters (Receiver/Exciter) each with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

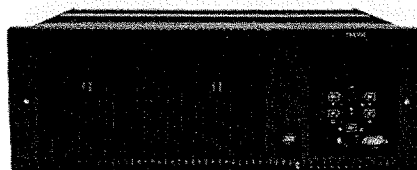
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8J0-NMB2-B2CC-A0B0	S8CJ-EAB2-B2CC-A0B0	S8C2-EAB2-B2CC-A4B0	S8CE-EAB2-B2CC-A4B0
148-174 MHz	S8J0-NMB3-B3CC-A0B0	S8CJ-EAB3-B3CC-A0B0	S8C2-EAB3-B3CC-A4B0	S8CE-EAB3-B3CC-A4B0
174-193 MHz	S8J0-NMC1-C1CC-A0B0	S8CJ-EAC1-C1CC-A0B0	S8C2-EAC1-C1CC-A4B0	S8CE-EAC1-C1CC-A4B0
193-225 MHz	S8J0-NMC2-C2CC-A0B0	S8CJ-EAC2-C2CC-A0B0	S8C2-EAC2-C2CC-A4B0	S8CE-EAC2-C2CC-A4B0
400-440 MHz	S8J0-NMH1-H1CC-A0B0	S8CJ-EAH1-H1CC-A0B0	S8C2-EAH1-H1CC-A4B0	S8CE-EAH1-H1CC-A4B0
440-480 MHz	S8J0-NMH2-H2CC-A0B0	S8CJ-EAH2-H2CC-A0B0	S8C2-EAH2-H2CC-A4B0	S8CE-EAH2-H2CC-A4B0
470-520 MHz	S8J0-NMH3-H3CC-A0B0	S8CJ-EAH3-H3CC-A0B0	S8C2-EAH3-H3CC-A4B0	S8CE-EAH3-H3CC-A4B0
Price	9,415	10,525	10,735	11,335
762-869 MHz	S8J0-NMK4-K4CC-A0B0	S8CJ-EAK4-K4CC-A0B0	S8C2-EAK4-K4CC-A4B0	S8CE-EAK4-K4CC-A4B0
Price	11,070	12,180	12,390	12,990

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- These Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 Dual 50 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 5-50 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Programmable Operation
- Optional Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Two Power Amplifiers
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Two Reciters (Receiver/Exciter) each with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

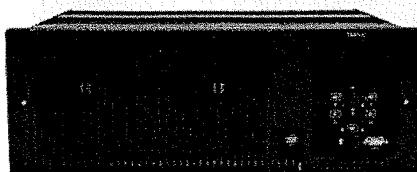
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8J0-NNB2-B2CC-A0B0	S8CJ-EEB2-B2CC-A0B0	S8C2-EEB2-B2CC-A4B0	S8CE-EEB2-B2CC-A4B0
148-174 MHz	S8J0-NNB3-B3CC-A0B0	S8CJ-EEB3-B3CC-A0B0	S8C2-EEB3-B3CC-A4B0	S8CE-EEB3-B3CC-A4B0
174-193 MHz	S8J0-NNC1-C1CC-A0B0	S8CJ-EEC1-C1CC-A0B0	S8C2-EEC1-C1CC-A4B0	S8CE-EEC1-C1CC-A4B0
193-225 MHz	S8J0-NNC2-C2CC-A0B0	S8CJ-EEC2-C2CC-A0B0	S8C2-EEC2-C2CC-A4B0	S8CE-EEC2-C2CC-A4B0
400-440 MHz	S8J0-NNH1-H1CC-A0B0	S8CJ-EEH1-H1CC-A0B0	S8C2-EEH1-H1CC-A4B0	S8CE-EEH1-H1CC-A4B0
440-480 MHz	S8J0-NNH2-H2CC-A0B0	S8CJ-EEH2-H2CC-A0B0	S8C2-EEH2-H2CC-A4B0	S8CE-EEH2-H2CC-A4B0
470-520 MHz	S8J0-NNH3-H3CC-A0B0	S8CJ-EEH3-H3CC-A0B0	S8C2-EEH3-H3CC-A4B0	S8CE-EEH3-H3CC-A4B0
Price	9,780	10,890	11,100	11,770
762-869 MHz	S8J0-NNK4-K4CC-A0B0	S8CJ-EEK4-K4CC-A0B0	S8C2-EEK4-K4CC-A4B0	S8CE-EEK4-K4CC-A4B0
Price	11,450	12,560	12,770	13,370

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- These Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 Single 100 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 10-100 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

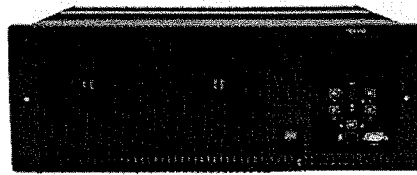
Frequency	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8BJ-J0B2-00C0-A0B0	S8B2-J0B2-00C0-A4B0	S8BE-J0B2-00C0-A4B0
148-174 MHz	S8BJ-J0B3-00C0-A0B0	S8B2-J0B3-00C0-A4B0	S8BE-J0B3-00C0-A4B0
174-193 MHz	S8BJ-J0C1-00C0-A0B0	S8B2-J0C1-00C0-A4B0	S8BE-J0C1-00C0-A4B0
193-225 MHz	S8BJ-J0C2-00C0-A0B0	S8B2-J0C2-00C0-A4B0	S8BE-J0C2-00C0-A4B0
400-440 MHz	S8BJ-J0H1-00C0-A0B0	S8B2-J0H1-00C0-A4B0	S8BE-J0H1-00C0-A4B0
440-480 MHz	S8BJ-J0H2-00C0-A0B0	S8B2-J0H2-00C0-A4B0	S8BE-J0H2-00C0-A4B0
470-520 MHz	S8BJ-J0H3-00C0-A0B0	S8B2-J0H3-00C0-A4B0	S8BE-J0H3-00C0-A4B0
Price	7,230	7,440	8,040
762-869 MHz	S8BJ-J0K4-00C0-A0B0	S8B2-J0K4-00C0-A4B0	S8BE-J0K4-00C0-A4B0
Price	8,240	8,450	9,050

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 TaitNet MPT1327 Compatible Single 5 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 1-5 Watt power output
- Programmable Power Output in 1W steps per channel
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

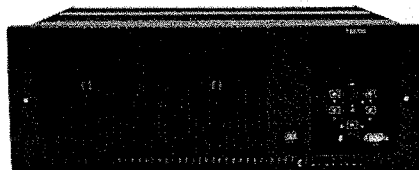
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8H0-M0B2-00T0-A0B0	S8BJ-A0B2-00T0-A0B0	S8B2-A0B2-00T0-A4B0	S8BE-A0B2-00T0-A4B0
148-174 MHz	S8H0-M0B3-00T0-A0B0	S8BJ-A0B3-00T0-A0B0	S8B2-A0B3-00T0-A4B0	S8BE-A0B3-00T0-A4B0
174-193 MHz	S8H0-M0C1-00T0-A0B0	S8BJ-A0C1-00T0-A0B0	S8B2-A0C1-00T0-A4B0	S8BE-A0C1-00T0-A4B0
193-225 MHz	S8H0-M0C2-00T0-A0B0	S8BJ-A0C2-00T0-A0B0	S8B2-A0C2-00T0-A4B0	S8BE-A0C2-00T0-A4B0
400-440 MHz	S8H0-M0H1-00T0-A0B0	S8BJ-A0H1-00T0-A0B0	S8B2-A0H1-00T0-A4B0	S8BE-A0H1-00T0-A4B0
440-480 MHz	S8H0-M0H2-00T0-A0B0	S8BJ-A0H2-00T0-A0B0	S8B2-A0H2-00T0-A4B0	S8BE-A0H2-00T0-A4B0
470-520 MHz	S8H0-M0H3-00T0-A0B0	S8BJ-A0H3-00T0-A0B0	S8B2-A0H3-00T0-A4B0	S8BE-A0H3-00T0-A4B0
Price	5,095	6,205	6,415	7,015
762-869 MHz	S8H0-M0K4-00T0-A0B0	S8BJ-A0K4-00T0-A0B0	S8B2-A0K4-00T0-A4B0	S8BE-A0K4-00T0-A4B0
Price	5,915	7,025	7,235	7,835

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 TaitNet MPT1327 Compatible Single 50 Watt System


The TB8100 offers you the following benefits:

- 255 Channels, 5-50 Watt power output
- Programmable Power Output in 1W steps per channel
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8H0-N0B2-00T0-A0B0	S8BJ-E0B2-00T0-A0B0	S8B2-E0B2-00T0-A4B0	S8BE-E0B2-00T0-A4B0
148-174 MHz	S8H0-N0B3-00T0-A0B0	S8BJ-E0B3-00T0-A0B0	S8B2-E0B3-00T0-A4B0	S8BE-E0B3-00T0-A4B0
174-193 MHz	S8H0-N0C1-00T0-A0B0	S8BJ-E0C1-00T0-A0B0	S8B2-E0C1-00T0-A4B0	S8BE-E0C1-00T0-A4B0
193-225 MHz	S8H0-N0C2-00T0-A0B0	S8BJ-E0C2-00T0-A0B0	S8B2-E0C2-00T0-A4B0	S8BE-E0C2-00T0-A4B0
400-440 MHz	S8H0-N0H1-00T0-A0B0	S8BJ-E0H1-00T0-A0B0	S8B2-E0H1-00T0-A4B0	S8BE-E0H1-00T0-A4B0
440-480 MHz	S8H0-N0H2-00T0-A0B0	S8BJ-E0H2-00T0-A0B0	S8B2-E0H2-00T0-A4B0	S8BE-E0H2-00T0-A4B0
470-520 MHz	S8H0-N0H3-00T0-A0B0	S8BJ-E0H3-00T0-A0B0	S8B2-E0H3-00T0-A4B0	S8BE-E0H3-00T0-A4B0
Price	5,460	6,570	6,780	7,380
762-869 MHz	S8H0-N0K4-00T0-A0B0	S8BJ-E0K4-00T0-A0B0	S8B2-E0K4-00T0-A4B0	S8BE-E0K4-00T0-A4B0
Price	6,295	7,405	7,615	8,215

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 TaitNet MPT1327 Compatible 50 Watt Dual System

The TB8100 offers you the following benefits:

- 255 Channels, 5-50 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Programmable Operation
- Optional Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Two Power Amplifiers
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Two Reciters (Receiver/Exciter) each with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

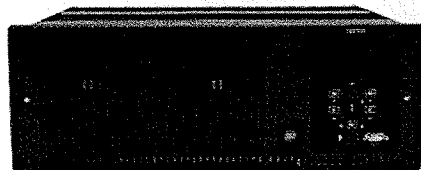
Frequency	12VDC PA Only	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8J0-NNB2-B2TT-A0B0	S8CJ-EEB2-B2TT-A0B0	S8C2-EEB2-B2TT-A4B0	S8CE-EEB2-B2TT-A4B0
148-174 MHz	S8J0-NNB3-B3TT-A0B0	S8CJ-EEB3-B3TT-A0B0	S8C2-EEB3-B3TT-A4B0	S8CE-EEB3-B3TT-A4B0
174-193 MHz	S8J0-NNC1-C1TT-A0B0	S8CJ-EEC1-C1TT-A0B0	S8C2-EEC1-C1TT-A4B0	S8CE-EEC1-C1TT-A4B0
193-225 MHz	S8J0-NNC2-C2TT-A0B0	S8CJ-EEC2-C2TT-A0B0	S8C2-EEC2-C2TT-A4B0	S8CE-EEC2-C2TT-A4B0
400-440 MHz	S8J0-NNH1-H1TT-A0B0	S8CJ-EEH1-H1TT-A0B0	S8C2-EEH1-H1TT-A4B0	S8CE-EEH1-H1TT-A4B0
440-480 MHz	S8J0-NNH2-H2TT-A0B0	S8CJ-EEH2-H2TT-A0B0	S8C2-EEH2-H2TT-A4B0	S8CE-EEH2-H2TT-A4B0
470-520 MHz	S8J0-NNH3-H3TT-A0B0	S8CJ-EEH3-H3TT-A0B0	S8C2-EEH3-H3TT-A4B0	S8CE-EEH3-H3TT-A4B0
Price	9,780	10,890	11,100	11,770
762-869 MHz	S8J0-NNK4-K4TT-A0B0	S8CJ-EEK4-K4TT-A0B0	S8C2-EEK4-K4TT-A4B0	S8CE-EEK4-K4TT-A4B0
Price	11,450	12,560	12,770	13,370

Additional configuration costs may apply.

Notes:

- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

TB8100 TaitNet Compatible MPT1327 Single 100 Watt System



The TB8100 offers you the following benefits:

- 255 Channels, 10-100 Watt power output
- 16 CTCSS or 16 DCS tones per channel
- Programmable Power Output in 1W steps per channel
- External Frequency Reference for QS Simulcast applications
- Full Remote Control and Diagnostics capability
- Programmable Operation
- Optional Power Save, Alarm Reporting and Advanced Profiles/Task Manager software upgrades

The Product Codes below are shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Amplifier
- Power Management Module including the auxiliary power supply as per indicated option
 - For AC or Dual mode, must order power cord Product Code T952-340
- Reciter (Receiver/Exciter) with isolated E&M audio system interface
- Service Kit (programming S/W, cable, CD)
- Installation Guide

Frequency	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S8BJ-J0B2-00T0-A0B0	S8B2-J0B2-00T0-A4B0	S8BE-J0B2-00T0-A4B0
148-174 MHz	S8BJ-J0B3-00T0-A0B0	S8B2-J0B3-00T0-A4B0	S8BE-J0B3-00T0-A4B0
174-193 MHz	S8BJ-J0C1-00T0-A0B0	S8B2-J0C1-00T0-A4B0	S8BE-J0C1-00T0-A4B0
193-225 MHz	S8BJ-J0C2-00T0-A0B0	S8B2-J0C2-00T0-A4B0	S8BE-J0C2-00T0-A4B0
400-440 MHz	S8BJ-J0H1-00T0-A0B0	S8B2-J0H1-00T0-A4B0	S8BE-J0H1-00T0-A4B0
440-480 MHz	S8BJ-J0H2-00T0-A0B0	S8B2-J0H2-00T0-A4B0	S8BE-J0H2-00T0-A4B0
470-520 MHz	S8BJ-J0H3-00T0-A0B0	S8B2-J0H3-00T0-A4B0	S8BE-J0H3-00T0-A4B0
Price	7,230	7,440	8,040
762-869 MHz	S8BJ-J0K4-00T0-A0B0	S8B2-J0K4-00T0-A4B0	S8BE-J0K4-00T0-A4B0
Price	8,240	8,450	9,050

Additional configuration costs may apply.

Notes:

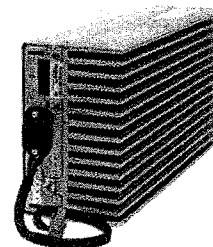
- 24VDC and 48VDC options available. Contact your Tait representative for pricing and information.
- Power Supply includes Battery Charger 13.8VDC and power cord.
- Product Codes do not include RF equipment such as coax relays, combiners, splitters, couplers, etc.
- Only the most common configurations are presented. Contact your Tait representative for other configurations or options.

28V Power Amplifiers

Used with PMU TB8100 systems

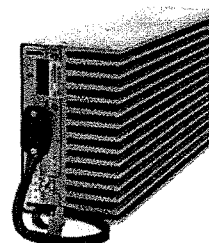
1-5 Watt Power Amplifier

- Broadband
- Built-in Alarm monitoring, and diagnostics
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- 1 millisecond keyup time
- Programmable output power from 1 to 5W in 1W steps
- Up to two 5W or 50W power amplifiers can be fitted into a TB8100 subrack



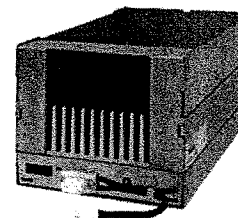
5-50 Watt Power Amplifier

- Broadband
- Built-in Alarm monitoring, and diagnostics
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- Programmable output power from 5 to 50W in 1W steps
- Up to two 5W or 50W power amplifiers can be fitted into a TB8100 subrack



10-100 Watt Power Amplifier

- Broadband
- Built-in Alarm monitoring, and diagnostics
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- 1 millisecond keyup time
- Programmable output power from 10 to 100W in 1W steps
- A limit of one 100W power amplifier can be fitted into a TB8100 subrack



Product Code	Description	Price
TBA70B1-0000	136-174MHz, 1-5 watt PA	1,015
TBA70C0-0000	174-225MHz, 1-5 watt PA	
TBA70H0-0000	400-520MHz, 1-5 watt PA	
TBA70K2-0000	760-870MHz, 1-5 watt PA	1,375
TBA80B1-0000	136-174MHz, 5-50 watt PA	1,380
TBA80C0-0000	174-225MHz, 5-50 watt PA	
TBA80H0-0000	400-520MHz, 5-50 watt PA	
TBA80K2-0000	760-870MHz, 5-50 watt PA	1,755
TBA90B1-0000	136-174MHz, 10-100 watt PA	2,040
TBA90C0-0000	174-225MHz, 10-100 watt PA	
TBA90H0-0000	400-520MHz, 10-100 watt PA	
TBA90K2-0000	760-870MHz, 10-100 watt PA	2,590

12VDC Power Amplifiers

Used with the 12VDC PA-only TB8100 system

1-5W Power Amplifier

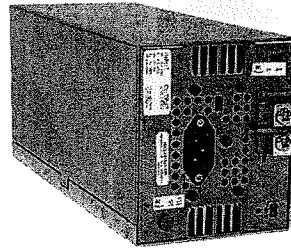
- Broadband
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- 2.5 millisecond keyup time
- Programmable output power from 1 to 5W in 1W steps
- Up to two 5W or 50W power amplifiers can be fitted into a TB8100 subrack

5-50W Power Amplifier

- Broadband
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- 2 millisecond keyup time
- Programmable output power from 5 to 50W in 1W steps
- Up to two 5W or 50W power amplifiers can be fitted into a TB8100 subrack

Product Code	Description	Price
TBA71B1-0000	136-174MHz, 1-5 watt 12VDC PA	1,015
TBA71C0-0000	175-225MHz, 1-5 watt 12VDC PA	
TBA71H0-0000	400-520MHz, 1-5 watt 12VDC PA	
TBA71K2-0000	760-870MHz, 1-5 watt 12VDC PA	1,375
TBA81B1-0000	136-174MHz, 5-50 watt 12VDC PA	1,380
TBA81C0-0000	175-225MHz, 5-50 watt 12VDC PA	
TBA81H0-0000	400-520MHz, 5-50 watt 12VDC PA	
TBA81K2-0000	760-870MHz, 5-50 watt 12VDC PA	1,755

Power Management Units (PMU)



Single AC Power Management Unit

Mains operated power supply. 88 to 264V input with power factor correction. Sufficient output power is provided to drive 1 x 100W transmitter or 2 x 50W transmitters. The unit has built in alarms and diagnostics and is remotely controllable and programmable.

Single DC Power Management Unit

A very high efficiency supply designed to run from a nominal 12, 24 or 48 VDC supply. This unit has the same output capability as the AC Power Supply. The input supply can be negatively or positively earthed. The unit has built in alarms and diagnostics and is remotely controllable and programmable. All DC Power Supplies include Standby and Auxiliary Power Supplies.

Dual (AC + DC) Power Management Unit

A dual power supply combining both of the above supplies. Switching from AC to DC is seamless and automatic. This option is required if the TB8100 is mains operated but is required to be powered by a backup DC supply. The DC input supply can be negatively or positively earthed. The unit has built in alarms and diagnostics and is remotely controllable and programmable. All Dual Power Supplies include Standby and Auxiliary Power Supplies.

Standard Features

Standby Power Supply (10W)

The standby supply is particularly useful for low current consumption operation, used in conjunction with the software-licensed power save feature TBAS030. The standby supply is used to run the Reciter alone so that the main 500 W DC supply can be switched off altogether for extended quiet periods. This unit can only be fitted to DC Supply or the Dual Supply. The low power option can only be enabled for single channel operation.

Auxiliary Power Supply / Battery Float Charger (40W output)

The TB8100 base station itself does not use the output of the Auxiliary Power Supply. The output is floating so it may be negatively or positively earthed. It can be configured to be on all of the time (to supply external equipment) or to be on only while mains is available (e.g. as a float charger for the battery). This module is therefore highly recommended for the Dual Supply and is required when the base station is to be used with TaitNet MPT1327 controllers.

DC Power Management Units

Product Code	Input Options				Output Supply Options			
	AC 88-264V	10-16V DC	20-33V DC	40-60V DC	12V Aux 40W	24V Aux 40W	48V Aux 40W	Standby 10W
TBA3001-1100		•			•			•
TBA3001-1200		•				•		•
TBA3001-1400		•					•	•
TBA3002-2100			•		•			•
TBA3002-2200			•			•		•
TBA3002-2400			•				•	•
TBA3004-4100				•	•			•
TBA3004-4200				•		•		•
TBA3004-4400				•			•	•
Price 1,000								

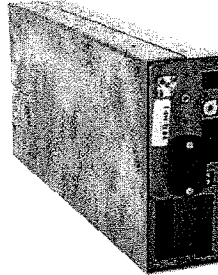
AC Power Management Units

Product Code	Input Options				Output Supply Options			
	AC 88-264V	10-16V DC	20-33V DC	40-60V DC	12V Aux 40W	24V Aux 40W	48V Aux 40W	Standby 10W
TBA30A0-0100	•				•			
TBA30A0-0200	•					•		
TBA30A0-0400	•						•	
Price 1,200								

AC/DC Power Management Units

Product Code	Input Options				Output Supply Options			
	AC 88-264V	10-16V DC	20-33V DC	40-60V DC	12V Aux 40W	24V Aux 40W	48V Aux 40W	Standby 10W
TBA30A1-1100	•	•			•			•
TBA30A1-1200	•	•				•		•
TBA30A1-1400	•	•					•	•
TBA30A2-2100	•		•		•			•
TBA30A2-2200	•		•			•		•
TBA30A2-2400	•		•				•	•
TBA30A4-4100	•			•	•			•
TBA30A4-4200	•			•		•		•
TBA30A4-4400	•			•			•	•
Price 1,800								

Reciters (Receiver/Exciter)



A Reciter includes a Receiver, Exciter, DSP, RF, and audio stages to give stable performance for the life of the product. A RISC processor controls the Task Manager, alarms system, fault monitoring, diagnostics, remote connectivity, and channel behavior.

The unit has provision for an internally fitted system interface module (SIF), allowing reconfiguring of the I/O system to suit the user's requirements. There are four SIFs available.

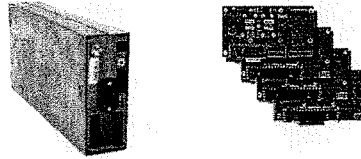
The unit is shipped with the default radio software license already installed. Other software licenses may be installed including:

- **Alarm Reporting Software**
- **Advanced Profiles and Task Manager Software**
- **Power Saving Modes**

The basic configuration includes one Reciter. An additional unit is required for any dual channel systems.

Product Code	Description	VHF/UHF/200MHz	800MHz
TBA40XX-YYYY	Reciter with SIF included	2,940	3,400
TBA50XX-YYYY	Receive-Only Reciter w/SIF	2,040	2,500
Where XX is: B2=136-156MHz B3=148-174MHz C1=174-193MHz C2=193-225MHz H1=400-440MHz H2=440-480MHz H3=470-520MHz K4=762-870MHz	Where YYYY is the Reciter with the following SIF: 0B00 = Isolated Audio 0C00 = Isolated Audio E/M 0T10 = TaitNet, MPT Trunked 0L00 = TaitNet, MPT + RS232		

System Interface Cards

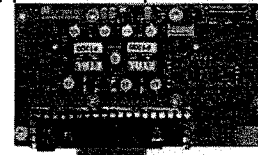


Every Reciter has a System Interface (SIF) card in it. The SIF is responsible for all the non-RF inputs and outputs to and from the Reciter. The SIF type is selectable to meet specific application requirements.

Isolated Audio – TBA10B0

D25 connector with:

- Fully isolated balanced input and output audio lines
- Non isolated unbalanced input and output audio lines
- 6 digital inputs
- 2 digital outputs
- 4 digital input/outputs
- 1 coax relay drive output
- Tx Key & Rx Gate



Isolated Audio E&M – TBA10C0

D25 connector with:

- Interface module with balanced and unbalanced input and output audio lines
- 2 digital inputs
- 2 digital outputs
- 4 digital input/outputs
- 1 coax relay drive output
- Tx Key & Rx Gate
- Optically isolated E & M (Tx Key and Rx Gate)



TaitNet, RS232 – TBA10L0

D15 connector to interface directly with TaitNet system, with:

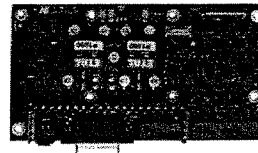
- Balanced and unbalanced input and output audio lines
- 3 digital inputs
- 1 digital output
- Tx Key & Rx Gate
- D9 RS232 connector



TaitNet, MPT Trunked – TBA10T1

D15 connector to interface directly with TaitNet system, with:

- Balanced and unbalanced input and output audio lines
- 3 digital inputs
- 1 digital output
- Tx Key & Rx Gate



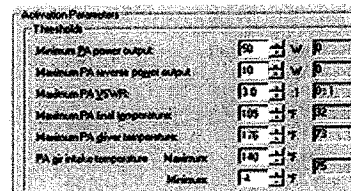
Product Code	Description	Additional Information	Price
TBA10B0	Isolated Audio SIF	25 way D-range	350
TBA10C0	Isolated Audio E&M SIF	25 way D-range w/E&M	
TBA10L0	TaitNet RS232 SIF	15 way D-range + 9 way D-range RS232	
TBA10T1	TaitNet MPT Trunked SIF	15 way D-range for TaitNet systems	

Index	Feature Set	Status	Seq	Feature ID
000	Default Radio System	Enabled	1	VPRT100
010	Alarm Center	Enabled	1	WTR101
020	Advanced Profiles & Task Manager	Enabled	1	430-220
030	Power Saving Modes	Enabled	1	AB7307
red		Disabled	0	
red		Disabled	0	

Licenses are applied on a per-feature and per-reciter basis.

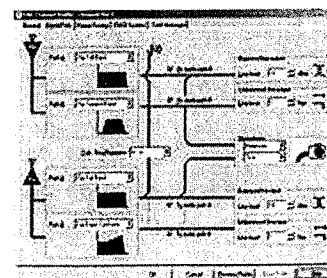
An Alarm Reporting license enables alarm centre connectivity. Using the Alarm Centre, you can monitor an entire network from a central location. This means that you don't need to manually connect to each base station to check it. At the first sign of trouble, a base station dial up an Alarm Centre and provides it with a list of recent alarms and other status information. If configured, the Alarm Centre can also forward the base station current status to an email server.

- Task Manager initiation of Status and Alarm calls
- Alarm Centre package (standalone PC application)
- Alarm collection
- Email forwarding
- External alarm inputs to base station



Advanced Profiles and Task Manager is an upgrade that enables the full flexibility of the TB8100 base station. Many of the most advanced features of the TB8100 base station are enabled by this upgrade, such as:

- | | Decade Signal | Action |
|---------|-----------------|---------------|
| Test 1 | CFSS - 470 KHz | Gate Receiver |
| Test 2 | CFSS - 7000 KHz | Gate Receiver |
| Test 3 | DCS - 047 | Gate Receiver |
| Test 4 | None | |
| Test 5 | None | |
| Test 6 | None | |
| Test 7 | None | |
| Test 8 | None | |
| Test 9 | None | |
| Test 10 | None | |
| Test 11 | None | |



Effective: 2006



Fixed Equipment Price \$US

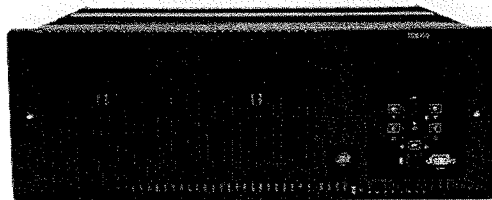
Power Saving Modes

Power Save Mode is an upgrade that uses an advanced software control system to dramatically reduce the power consumption of the entire TB8100 base station. Designed for battery and solar power sites, the Power Save Modes SFE gives the best trade-off between power consumption and quality of service

A Power Saving SFE license enables the TB8100's power saving capabilities. You can configure a power saving level for three different modes (Normal, Sleep and Deep Sleep), and determine how the base station makes the transitions into these sleep modes. Configurable features are transmitter key-up time, receiver cycling time and idle time.

Product Code	Description	Price
TBAS010	Alarm Reporting Remote Control & Diagnostics Dial-up reporting and e-mail	699
TBAS020	Advanced Profiles and Task Manager Default profiles, 16 CTCSS or DCS tones, Dual audio paths Full task manager (200 tasks)	1,449
TBAS030	Power Saving Mode Programmable low current drain features. Requires DC Power Management Unit and standby supply	2,499

Subracks



Subracks include Auxiliary Power Cables and Control Panels. (12VDC PA-Only system subrack includes control panel only.)

To house the modules, you must select one of the following subracks:

Description	5/50W	100W	Price
Single Reciter Systems	TBA2325-A000	TBA2327-A000	1,250
Dual Reciter Systems	TBA2326-A000	N/A	
Power Save Systems	TBA2328-A000	TBA2329-A000	
12VDC PA-Only Single Reciter Systems	TBA232A-A000	N/A	1,140
12VDC PA-Only Dual Reciter Systems	TBA232B-A000	N/A	

NOTE: Power Save is only available in Single Reciter Systems.

Tone Remote Modules

Product Code	Description	Price
TBA0M01	Single Tone Remote Module	800
TBA0M02	Dual Tone Remote Module	1,600

Changeover Module

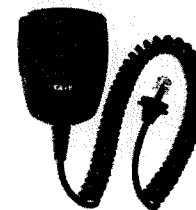
The TA2444-01 TB8100 Change-over module provides automated failure protection for the Tait TB8100 series of base station equipment. The TA2444-01 provides the physical changeover mechanics, interfaces to external alarm components and termination points for remote audio connections.

TA2444-02 Installation Kit contains all the parts for the fitting and interconnecting of the coaxial relay, monitor module and power splitter. The kit includes the coaxial relay, but not the frequency dependent items such as the power splitter.

Product Code	Description	US List Price
TA2444-01	TB8100 Changeover Module	595
TA2444-02	Installation Kit	565

Microphones

Required for test transmissions. Plugs into the User Interface. The microphone can be configured to transmit over the air or as line audio.



Product Code	Description	Price
TMAA02-01	Microphone	51
TMAA10-01	Desktop Microphone	165

Coaxial Relay Assembly

Product Code	Description	Price
TBA60B1	Relay, Coax Assembly, Fittings, S-Mounting Bracket for Standard TB8100 Configurations	470
TBA60B2	Relay, Coax Assembly, Fittings, S-Mounting Bracket for TB8100 with Tone Remote	470

Power Cordset

Product Code	Description	Price
T952-340	IEC Cord set (USA/Canada)	10

Asynchronous Port Switch

Asynchronous Port Switches allow a single phone line to support up to 31 TB8100 base stations (one port is required for connection to local control). This enables Service Kit access, remote access, monitoring and diagnostics, and automatic dial out to an Alarm Centre from any one of the connected base stations.

Product Code	Description	Price
TBA60A2	8 Port Asynchronous Port Switch	1,550
TBA60A3	16 Port Asynchronous Port Switch	2,800
TBA60A4	32 Port Asynchronous Port Switch	5,550

Power Management Unit Options Boards

Spare Cards	Output				Price
	12V Auxiliary	24V Auxiliary	48V Auxiliary	Standby	
TBA30X0-0100	•				170
TBA30X0-0200		•			
TBA30X0-0400			•		
TBA30X0-1000				• for 12VDC input	
TBA30X0-2000				• for 24VDC input	
TBA30X0-4000				• for 48VDC input	

Subrack Ancillaries

Product Code	Description	Price
TBA2010	Control Panel - Power Save	255
TBA2020	Control Panel – Standard	
TBA2040	Control Panel – Dual	
TBA2241	Single Channel Auxiliary power cable	110
TBA2242	Dual Channel Auxiliary power cable	
TBA2243*	Single Channel Auxiliary power cable 2way	
TBA2244*	Dual Channel Aux power cable 2way	

NOTE: * required for TaitNet RS232 systems

Programming Accessories

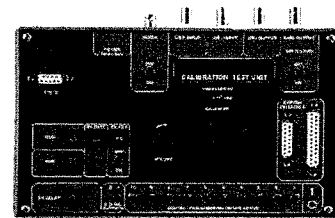
Product Code	Description	Additional Information	Price
TBA0P00	Std. Service Kit, Cable & CD	All available languages provided	95
TBA0P10	Programming Cable only	9 pin RS232 to 9 pin RS232	20

Service Accessories

Calibration Test Unit

The TB8100 Calibration Test Unit is required when using the Service Kit to access the reciter when it is not in the subrack.

It is required for system re-tuning and extremely useful for system test and run-up, especially when commissioning new configurations, and running radio diagnostics.



Tool Kit

Includes:

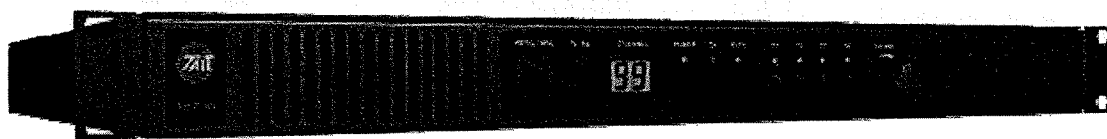
- Control Panel Board Remover
- Torx-Driver T8
- Torx-Driver T10
- Torx-Driver T20
- Screwdriver PZD-2
- Screwdriver Medium Flat Blade
- Tuning Tool Cer 2.2mm
- Tuning Tool 5CCE
- Socket Head M3 nuts
- Tool bag



Product Code	Description	Price
TBA0ST1	Calibration Test Unit	585
TBA0ST2	Tool Kit	160

TB7100

Base Station/Repeaters



Affordable • Compact • High Speed Data

The renowned performance of Tait radio infrastructure is now even more affordable through the new TB7100 base station/repeater.

A proven RF platform is at the core of the cost-effective TB7100, which offers continuous duty operation at 25W, 40W (UHF) and 50W (VHF) power output. With two fans for effective cooling it can operate at ambient temperatures of up to 140°F (60°C).

The TB7100 is also an ideal high-speed data platform, with data rates of up to 19.2kbps as standard.

The TB7100 is designed for use with an external DC power supply and comes in a 19-inch 1U rack bin, which is also capable of being wall mounted.

Fitted with an optional internal duplexer, the TB7100 is capable of full duplex operation for either a voice or data channel.

TB7100 40/50W Base Station System Prices


Includes:

- 100 channels
- 12.5 / 20 / 25kHz channel spacing
- 100% duty cycle
- Two digit display

Supports:

- Full duplex voice Talk Through Repeater and Line Connected Base
- 1200 baud FFSK and Tait High Speed Data Talk Through Repeater and Line Connected Base

Frequency Band	40/50W	Price
136 – 174 MHz	TBBB1B1-B00-00	2,000
400 – 470 MHz	TBBH5H5-B00-00	2,000
450 – 520 MHz	TBBH7H7-B00-00	2,000

Note: Wall mounting equipment, duplexer and external DC power supply not included. RF equipment such as coax relays, combiners, splitters, couplers, antennas etc not included. Additional configuration costs may apply.

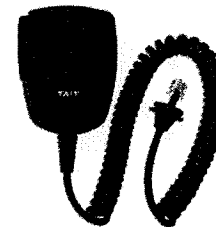
Additional Options	
Power Management	Add
Internal Duplexer	790
Hardware	Add
Wall Mount Bracket	15
Standard Microphone	51

Duplexers

Product Code	Description	Price
T993-050-02-00	138 – 156MHz 50W Customer Tuned	790
T993-050-02-01	138 – 156MHz 50W 4-6 MHz Spacing	
T993-050-02-02	138 – 156MHz 50W 6-8 MHz Spacing	
T993-050-02-03	138 – 156MHz 50W 8-10 MHz Spacing	
T993-050-05-00	152 – 175 MHz 50W Customer Tuned	
T993-050-05-01	152 – 175 MHz 50W 4-6 MHz Spacing	
T993-050-05-02	152 – 175 MHz 50W 6-8 MHz Spacing	
T993-050-05-03	152 – 175 MHz 50W 8-10 MHz Spacing	
T993-050-06-00	406 – 520 MHz 50W Customer Tuned	
T993-050-06-01	406 – 520 MHz 50W 5-7 MHz Spacing	
T993-050-06-02	406 – 520 MHz 50W 7-9 MHz Spacing	
T993-050-06-03	406 – 520 MHz 50W 9-13 MHz Spacing	
T993-050-06-04	406 – 520 MHz 50W 13-16 MHz Spacing	

Microphone

Required for test transmissions. Plugs into the User Interface. The microphone can be configured to transmit over the air or as line audio.



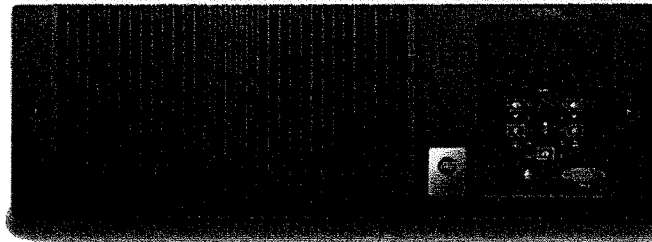
Product Code	Description	Price
TMAA02-01	Microphone	51
TMAA10-01	Desktop Microphone	165

Mounting Bracket

Includes hardware required to attach the TB7100 to a wall, for use in situations without a standard 19-inch rack.

Product Code	Description	Price
TBBA03-01	Wallmount Bracket	15

TB9100 P25 Base Station/Repeater



TB9100 base station offers continuous duty cycle operation at full performance specifications within the complete temperature and altitude range.

With flexible, modular design, practical features and value for money that Tait is renowned for, the TB9100 raises the bar for APCO Project 25 (P25) base stations. It utilizes 28V FET technology for superior performance and reliability. The new TB9100 operates both as a repeater and/or a line-connected base station.

What's more, it's even easier to use. Flexible operating and programming software with an intuitive user interface is at the heart of the TB9100, making it very integrator friendly and easily expandable.

Its practical easy-to-use features coupled with impressive RF performance help make the TB9100 the best choice for your next generation P25 base station.

The TB9100 offers you the following features:

- 255 Channels with up to 1 CTCSS or 1 DCS tone per channel
- Full Remote Control and Diagnostics
- Choice of external interface configurations
- Programmable Operation
- Software Enabled Feature upgrade options
- Choice of single 5W, 50W or 100W configurations.
- Seamless backup battery operation and charging with AC/DC supply

Intelligent • Flexible • High Performance

Digital Controller Design

Designed from the ground up, the TB9100 features a state-of-the-art RISC processor and Digital Signal Processor (DSP), providing very fast, reliable data processing through the latest in digital technology.

28V Technology

More powerful than most base stations in its class.

Tait tests the TB9100 to transmit continuously at full power with ambient air temperatures as high as +60°C (140°F) at 4572m (15,000 feet).

Advanced Programming Capabilities

The TB9100's intuitive yet comprehensive programming software with Graphical User Interface (GUI) lets you manage and program over 150 critical parameters, including all monitoring, configuration management and power management features.

Convenient Modular Design

Designed for ease of hook-up and adaptation in the field, the TB9100 is configured with front-loading modules that can be mixed and matched to meet your system needs. Whether expanding from 50 to 100 Watts, or replacing the PA, the TB9100 gives you the flexibility to make changes in the field. A clean back-panel design hides the usual rear unit wiring clutter displaying only the connections required to link to your external radio system.

Built-in Standard Interfaces

The TB9100 has built-in a variety of industry-standard interfaces to enable easy connectivity to the rest of your system. Whether adding a TB9100 to your network through its IP Ethernet, or attaching an analog base station or analog dispatch console through its 4-wire E&M audio line interface, you can connect to a TB9100 directly without additional hardware.

Self-Monitor Capability

The TB9100 manages self-monitoring parameters in its non-volatile memory, requiring no external costly monitor units, saving money, time and hassles. The advanced monitoring system will read the base status, determine the appropriate required action, and perform that action while alerting central control.

Power Management System

The comprehensive power management system provides the ability to automatically switch between AC and DC input power, to move to battery operation in the case of power failure, and to provide an auxiliary power supply for third-party equipment.

Complete Remote Accessibility

The advanced intuitive interface of the TB9100 Customer Service Software (CSS) makes remote management of your system simple. The self-monitoring application has dial-out capability so you are immediately notified of potential issues. Over 150 system parameters can be configured or monitored remotely with the TB9100 Customer Service Software.

Robust Specifications

Built to exceed standard specifications, the TB9100 is designed to withstand extreme temperature conditions. Engineered for maximum reliability, the TB9100 has large heat sinks, advanced cooling, and the intelligence to maintain the highest possible levels of service in adverse environments.

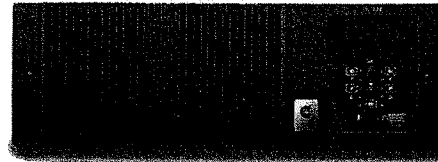
Peak RF Performance

With outstanding specifications for selectivity, adjacent channel interference and fast key-up times, the TB9100 base station was designed using the best RF practices. You can depend on the RF performance of this base station even in the most extreme temperature conditions.

TB9100 Repeater / Base Station Prices

The TB9100 Base Unit is shipped with the following modules included:

- Subrack Front Panel with dual fans
- Control Panel
- Power Management Module
- Power Amplifier
- P25 Single Reciter (Receiver/Exciter) with fitted Network Board
- Requires P25 CAI for digital operation
- CD Manual & Safety and Compliance Booklet



Base Unit	VHF/UHF
Single 1-5w	16,456
Single 5-50w	16,913
Single 10-100w	17,738

Notes: Prices are for DC PMU systems only. Additional configuration costs may apply.

For P25 Digital Operation

P25 operation requires that each base station system should enable the APCO Project 25 Common Air Interface license installed.

This software license key is a separate orderable item. One key is needed for each reciter.

Additional Options	
Power Management	Add
12VDC, 24VDC or 48VDC Power Management Unit (standard configuration)	N/C
AC Power Management Unit (includes AC power cord)	263
AC plus 12/24/48VDC Power Management Unit (includes AC power cord)	1013
Software Feature Enhancements	Add
P25 Common Air Interface - Enables P25 CAI	5625
Analog Line SFE license - Enables P25 on analog line interface	113
Digital Line SFE license - Enables P25 VoIP networking	POA
Networked User Data SFE license - Enables user packet data	POA
MDC1200 Signaling SFE license - Enables support for MDC1200	313
Other Options	Add
Microphone	64
Desktop Microphone	206
Customer Service Software (CSS) Installation License	406

For exact order details and order codes, please contact your Tait Representative.

TB9100 Single 5 Watt System			
Frequency	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S9BJ-A0B2-00P0-A0B0	S9B2-A0B2-00P0-A4B0	S9BE-A0B2-00P0-A4B0
148-174 MHz	S9BJ-A0B3-00P0-A0B0	S9B2-A0B3-00P0-A4B0	S9BE-A0B3-00P0-A4B0
400-440 MHz	S9BJ-A0H1-00P0-A0B0	S9B2-A0H1-00P0-A4B0	S9BE-A0H1-00P0-A4B0
440-480 MHz	S9BJ-A0H2-00P0-A0B0	S9B2-A0H2-00P0-A4B0	S9BE-A0H2-00P0-A4B0
470-520 MHz	S9BJ-A0H3-00P0-A0B0	S9B2-A0H3-00P0-A4B0	S9BE-A0H3-00P0-A4B0
US List Price	16,456	16,719	17,469

TB9100 Single 50 Watt System			
Frequency	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S9BJ-E0B2-00P0-A0B0	S9B2-E0B2-00P0-A4B0	S9BE-E0B2-00P0-A4B0
148-174 MHz	S9BJ-E0B3-00P0-A0B0	S9B2-E0B3-00P0-A4B0	S9BE-E0B3-00P0-A4B0
400-440 MHz	S9BJ-E0H1-00P0-A0B0	S9B2-E0H1-00P0-A4B0	S9BE-E0H1-00P0-A4B0
440-480 MHz	S9BJ-E0H2-00P0-A0B0	S9B2-E0H2-00P0-A4B0	S9BE-E0H2-00P0-A4B0
470-520 MHz	S9BJ-E0H3-00P0-A0B0	S9B2-E0H3-00P0-A4B0	S9BE-E0H3-00P0-A4B0
US List Price	16,913	17,175	17,925

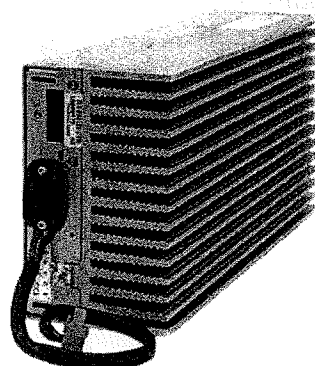
TB9100 Single 100 Watt System			
Frequency	12VDC w/PMU	AC 110V	AC/12VDC
136-156 MHz	S9BJ-J0B2-00P0-A0B0	S9B2-J0B2-00P0-A4B0	S9BE-J0B2-00P0-A4B0
148-174 MHz	S9BJ-J0B3-00P0-A0B0	S9B2-J0B3-00P0-A4B0	S9BE-J0B3-00P0-A4B0
400-440 MHz	S9BJ-J0H1-00P0-A0B0	S9B2-J0H1-00P0-A4B0	S9BE-J0H1-00P0-A4B0
440-480 MHz	S9BJ-J0H2-00P0-A0B0	S9B2-J0H2-00P0-A4B0	S9BE-J0H2-00P0-A4B0
470-520 MHz	S9BJ-J0H3-00P0-A0B0	S9B2-J0H3-00P0-A4B0	S9BE-J0H3-00P0-A4B0
US List Price	17,738	18,000	18,750

Additional configuration costs may apply.

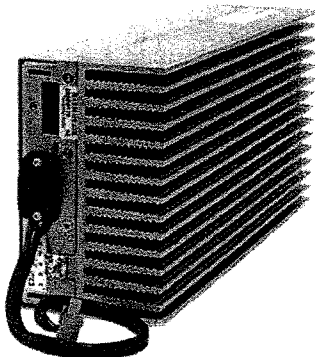
Power Amplifiers

- Built-in Alarm monitoring, and diagnostics.
- Remotely configurable and programmable.
- 100% duty cycle @ 140°F (60°C) 15,000 ft (4500 m).
- 2.5 millisecond keyup time.
- Programmable output power from 1 to 5W in 1W steps.
- A single power amplifier can be fitted into each TB9100 subrack.

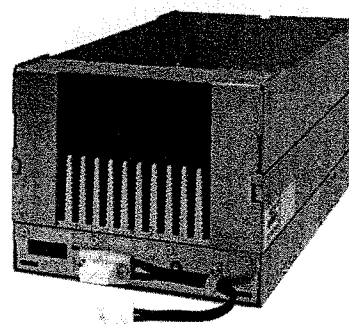
1-5W Power Amplifier



5-50W Power Amplifier



10-100W Power Amplifier



Product Code	Description	Price
TBA70B1-0000	136-174MHz, 5 watt PA	1269
TBA70H0-0000	400-520MHz, 5 watt PA	1269
TBA80B1-0000	136-174MHz, 50 watt PA	1725
TBA80H0-0000	400-520MHz, 50 watt PA	1725
TBA90B1-0000	136-174MHz, 100 watt PA	2550
TBA90H0-0000	400-520MHz, 100 watt PA	2550

Power Management Modules

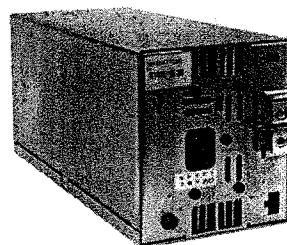
Description:

Single DC Power Supply

A very high efficiency supply designed to run from a nominal 12, 24 or 48 VDC supply. This unit has the same output current capability as the AC Power Supply. The input supply can be negatively or positively earthed. The unit has built in alarms and diagnostics and is remotely controllable and programmable.

Single AC Power Supply

Mains operated power supply. 88 to 264V input with power factor correction. Sufficient output power is provided to drive 1 x 100W transmitter or 2 x 50W transmitters. The unit has built in alarms and diagnostics and is remotely controllable and programmable.



Dual (AC + DC) Power Supply

A power supply combining both AC and DC supplies. Switching from AC to DC is seamless and automatic. This option is required if the TB9100 is mains operated but is required to be powered by a backup DC supply. The DC input supply can be negatively or positively earthed. The unit has built in alarms and diagnostics and is remotely controllable and programmable.

Standard Features

Standby Power Supply, (10W)

The standby supply allows for low current consumption operation. The standby supply is used to run the Reciter alone so that the main 500 W DC supply can be switched off altogether for extended quiet periods. This unit can only be fitted to DC Supply or the AC/DC Supply.

Auxiliary Power Supply / Battery Float Charger (40W output)

The base station itself does not use the output of the Auxiliary Power Supply. This supply is designed to float charge external backup batteries or to supply power to other equipment. The output is floating so it may be negatively or positively earthed.

The auxiliary power supply can be configured to be on all of the time (to supply external equipment) or to be on only while mains is available (e.g. as a float charger for the battery). This module is a beneficial configuration to use with the AC/DC Power Supply. Options are available for 13.65, 27.6, or 48 VDC outputs.

Single Power Supplies

Product Code	Input Options				OUTPUT SUPPLY OPTIONS			
	AC (88-264V)	12VDC (10-16V)	24VDC (20-33V)	48VDC (40-60V)	12V Aux (40W)	24V Aux (40W)	48V Aux (40W)	Standby (10W)
TBA3001-1100		•			•			•
TBA3001-1200		•				•		•
TBA3001-1400		•					•	•
TBA3002-2100			•		•			•
TBA3002-2200			•			•		•
TBA3002-2400			•				•	•
TBA3004-4100				•	•			•
TBA3004-4200				•		•		•
TBA3004-4400				•			•	•
Price 1,250								

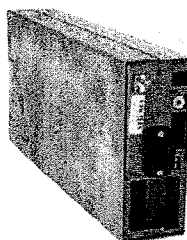
TBA30A0-0100	•				•			
TBA30A0-0200	•					•		
TBA30A0-0400	•						•	
Price 1,500								

AC/DC Power Supplies

Product Code	Input Options				OUTPUT SUPPLY OPTIONS			
	AC (88-264V)	12VDC (10-16V)	24VDC (20-33V)	48VDC (40-60V)	12V Aux (40W)	24V Aux (40W)	48V Aux (40W)	Standby (10W)
TBA30A1-1100	•	•			•			•
TBA30A1-1200	•	•				•		•
TBA30A1-1400	•	•					•	•
TBA30A2-2100	•		•		•			•
TBA30A2-2200	•		•			•		•
TBA30A2-2400	•		•				•	•
TBA30A4-4100	•			•	•			•
TBA30A4-4200	•			•		•		•
TBA30A4-4400	•			•			•	•
Price 2,250								

Reciters (Receiver / Exciter)

Reciters are available in the following bands: 136 to 156MHz, 148 to 174MHz, 400 to 440MHz, 440 to 480MHz, and 470 to 520MHz.



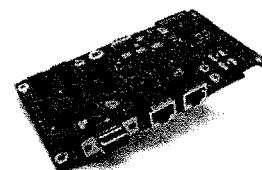
A Reciter includes a Receiver, Transmitter, Exciter, DSP and Risk Processor, Low Power RF, and audio stages to give stable performance for the life of the product. The RISC processor controls the Task Manager, alarms system, fault monitoring, diagnostics, remote connectivity, and channel behavior.

The unit includes as standard an internally fitted Network Board, allowing the TB9100 to operate as a P25 repeater or to be connected to Tait APCO Project 25 network.

The unit is shipped with the default analog radio software license already installed.

Other software licenses may be installed including:

P25 Common Air Interface
Analog Line Interface
Digital Line Interface
Networked User Data
MDC1200 Signaling



The basic configuration of the TB9100 includes one Reciter.

Product Code	Description	Price
TBA40XX-PA00	P25 Reciter with Network Board included	12,375
Where XX is: B2=136-156MHz B3=148-174MHz H1=400-440MHz H2=440-480MHz H3=480-520MHz	PA00 = TaitNet P25 Isolated Audio E/M Network Board	

Subracks



Subrack includes Auxiliary Power Cable and Control Panel.

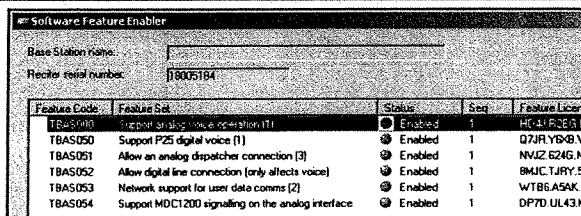
To house the modules, you must include the following subrack:

Description	5/50W	100W	Price
Single Reciter Systems	TBA2325-A000	TBA2327-A000	1563

RJ45 Adaptor Accessory

Product Code	Description	Price
TBA60C0	TB9100 RJ45 Adapter Front Panel 1U	111

Software Enabled Features



Feature Code	Feature Set	Status	Seq	Feature License
TBAS000	Support analog line connection (1)	Enabled	1	HC41R263.H
TBAS050	Support P25 digital voice (1)	Enabled	1	Q7JRYS9.V
TBAS051	Allow an analog dispatcher connection (3)	Enabled	1	NVJ2G24G.N
TBAS052	Allow digital line connection (only affects voice)	Enabled	1	BMJC.TJRY.5K
TBAS053	Network support for user data comms (2)	Enabled	1	WTB6A5AK.S
TBAS054	Support MDC1200 signalling on the analog interface	Enabled	1	DP7D.U43.K

The TB9100 Software Feature Enabler is a software licensing system that is used to enable advanced features of the base station. Licenses are applied on a per-feature and per-reciter basis.

Product Code	Description	Price
TBAS050	P25 Common Air Interface - enables P25 CAI	5625
TBAS051	Analog Line - enables P25 on analog line interface	113
TBAS052	Digital Line - enables P25 VoIP networking	4800
TBAS053	Networked User Data	TBD
TBAS054	MDC1200 Signaling	313

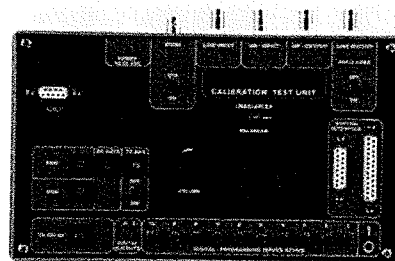
Service Accessories

Calibration Test Unit

The TB9100 Calibration Test Unit is required when using the Service Kit to access the reciter when it is not in the subrack.

It is required for system re-tuning and extremely useful for system test and runup, especially when commissioning new configurations, and running radio diagnostics.

The Calibration Test Unit comes complete with the necessary cables.

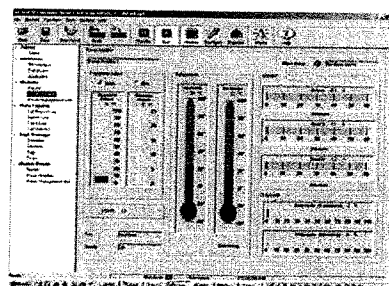


Customer Service Software (CSS) installation license

The Customer Service Software is a software application that runs on a PC or laptop under Windows 2000 or XP.

It is required to configure, monitor, diagnose, or upgrade a TB9100 through a local or remote connection.

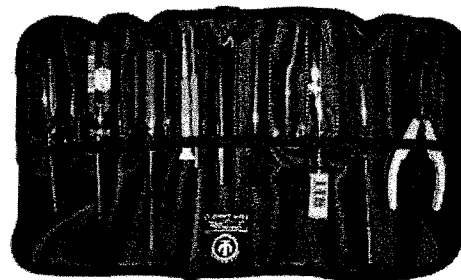
The CSS can be installed from the TB9100 Product CD, but requires a Customer Service Software (CSS) installation license.



Tool Kit

Includes:

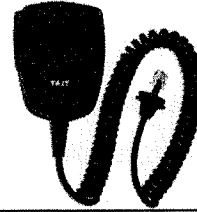
- Control Panel Board Remover
- Torx-Driver T8
- Torx-Driver T10
- Torx-Driver T20
- Screwdriver PZD-2
- Screwdriver Medium Flat Blade
- Tuning Tool Cer 2.2mm
- Tuning Tool 5CCE
- Socket Head M3 nuts
- Tool bag



Part Number	Description	Price
TBA0STP	TB9100 Calibration Test Unit	731
TBACD001	Customer Service Software (CSS) installation license	406
TBA0ST2	Tool Kit	200

Microphones

Required for test transmissions, the microphone plugs into the User Interface. The microphone can be configured to transmit over the air or as line audio.



Part Number	Description	Price
TMAA02-01	Microphone	64
TMAA10-01	Desktop Microphone	206

Power Cordset

Standard AC power cord for Base Station.

Part Number	Description	Price
T952-340	IEC Cord set (USA/Canada)	13